

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application;

Claim 1 (Currently Amended) A projection-type display device, comprising:

a light source;

a spatial light modulation element ~~which~~ that modulates incident light according to an applied image signal and that emits the modulated light;

an illumination optical system ~~which~~ that condenses light from said light source and that illuminates said spatial light modulation element;

a projection lens ~~which~~ that projects light emitted from said spatial light modulation element;

shielding means, that is positioned along ~~the~~ a path of light on ~~the~~ a side of either said illumination optical system or said projection lens with respect to said spatial light modulation element, and ~~which~~ that varies ~~the~~ an amount of shielding of transmitted light; and

image signal correction means ~~which~~ that divides ~~the~~ a picture plane of said spatial light modulation element into a

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plurality of areas, and that performs correction on said image signal applied to said spatial light modulation element in accordance with ~~the~~ a current shielding amount of said shielding means for each of said plurality of areas.

Claim 2 (Currently Amended) The projection-type display device according to claim 1, wherein

said image signal correction means performs correction for each of said plurality of areas in accordance with ~~the~~ an output level characteristic of light in each area with respect to ~~the~~ an application level of said applied image signal and in accordance with the current shielding amount of said shielding means.

Claim 3. (Currently Amended) The projection-type display device according to claim 1, further comprising:

storage means ~~to store~~ that stores a plurality of correction data sets in accordance with the current shielding amount of said shielding means, wherein

said image signal correction means performs correction, referring to the correction data, in accordance with the current shielding amount of said shielding means in said storage means.

Claim 4 (Currently Amended) The projection-type display device according to claim 2, further comprising:

storage means ~~to store~~ that stores a plurality of correction data sets in accordance with the current shielding amount of said shielding means, wherein

said image signal correction means performs correction, referring to the correction data, in accordance with the current shielding amount of said shielding means in said storage means.

Claim 5. (Currently Amended) A projection-type display device comprising:

a light source;

a spatial light modulation element ~~which~~ that modulates incident light according to an applied image signal and that emits the modulated light;

an illumination optical system ~~which~~ that condenses light from said light source and that illuminates said spatial light modulation element;

a projection lens ~~which~~ that projects light emitted from said spatial light modulation element; and

image signal correction means ~~which~~ that divides ~~the~~ a picture plane of said spatial light modulation element into a

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plurality of areas, and that performs correction on said image signal applied to said spatial light modulation element for each of said plurality of areas in accordance with ~~the~~ an f number at ~~the~~ a current position of said projection lens.

Claim 6. (Currently Amended) The projection-type display device according to claim 5, wherein

said image signal correction means performs correction for each of said plurality of areas in accordance with ~~the~~ an output level characteristic of light in each area with respect to ~~the~~ a level of application of said applied image signal and in accordance with the f number at ~~the~~ a current zoom position of said projection lens.

Claim 7. (Currently Amended) The projection-type display according to claim 5, further comprising:

storage means ~~to—store~~ that stores a plurality of correction data sets in accordance with the f number of said projection lens, wherein

said image signal correction means performs correction, referring to correction data in accordance with the f number at ~~the~~ a current zoom position of said projection lens in said storage means.

Claim 8. (Currently Amended) The projection-type display

device according to claim 6, further comprising:

storage means ~~to store~~ that stores a plurality of correction data sets in accordance with the f number of said projection lens, wherein

said image signal correction means performs correction, referring to correction data in accordance with the f number at the current zoom position of said projection lens in said storage means.

Claim 9. The projection-type display device according to claim 5, further comprising:

judgment means ~~to judge~~ that judges the current zoom position of said projection lens, wherein

said image signal correction means performs correction in accordance with the f number at ~~the~~ a current zoom position of said projection lens, based on ~~the~~ a judgment result of said judgment means.

Claim 10. (Currently Amended) The projection-type display device according to claim 6, further comprising:

judgment means ~~to judge~~ that judges the current zoom position of said projection lens, wherein

said image signal correction means performs correction in accordance with the f number at the current zoom position of said projection lens, based on ~~the~~ a judgment result of said

judgment means.

Claim 11. (Currently Amended) The projection-type display device according to claim 7, further comprising:

judgment means ~~to judge~~ that judges the current zoom position of said projection lens, wherein

said image signal correction means performs correction in accordance with the f number at the current zoom position of said projection lens, based on ~~the~~ a judgment result of said judgment means.

Claim 12. (Currently Amended) A projection-type display device, comprising:

a light source,

a spatial light modulation element ~~which~~ that modulates incident light according to an applied image signal and that emits the modulated light, and

an illumination optical system ~~which~~ that condenses light from said light source and that illuminates said spatial light modulation element; wherein

a projection lens which that projects light emitted from said spatial light modulation element is replaceable by a plurality of types of projection lenses with different f numbers; and further comprising:

image signal correction means ~~which~~ that divides ~~the~~ a

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picture plane of said spatial light modulation element into a plurality of areas, and that performs correction on said image signal applied to said spatial light modulation element for each of said plurality of areas in accordance with the f number of ~~the~~ a currently mounted projection lens.

Claim 13. (Currently Amended) The projection-type display according to claim 12, wherein said image signal correction means performs correction for each of said plurality of areas in accordance with ~~the~~ an output level characteristic of light in the area with respect to ~~the~~ a level of application of said applied image signal and in accordance with the f number of ~~said~~ the currently mounted projection lens.

Claim 14. (Currently Amended) The projection-type display device according to claim 12, further comprising:

storage means ~~which~~ that stores a plurality of correction data sets in accordance with the f numbers of said plurality of types of projection lenses, wherein

said image signal correction means performs correction, referring to the correction data in said storage means, in accordance with the f number of the currently mounted projection lens ~~in said storage means~~.

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Claim 15. (Currently Amended) The projection-type display device according to claim 13, further comprising:

storage means ~~which~~ that stores a plurality of correction data sets in accordance with the f numbers of said plurality of types of projection lenses, wherein,

said image signal correction means performs correction, referring to the correction data in said storage means, in accordance with the f number of the currently mounted projection lens ~~in said storage means~~.

Claim 16. (Currently Amended) the projection-type display device according to claim 12, further comprising:

judgment means ~~to judge~~ that judges the f number of the currently mounted projection lens, wherein

said image signal correction means performs correction in accordance with the f number of the currently mounted projection lens, based on ~~the~~ a judgment result of said judgment means.

Claim 17. (Currently Amended) The projection-type display device according to claim 13, further comprising:

judgment means ~~to judge~~ that judges the f number of the currently mounted projection lens, wherein

said image signal correction means performs correction in accordance with the f number of the currently mounted

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projection lens, based on the a judgment result of said judgment means.

Claim 18. (Currently Amended) The projection-type display device according to claim 14, further comprising:

judgment means ~~to judge~~ that judges the f number of the currently mounted projection lens, wherein

said image signal correction means performs correction in accordance with the f number of the currently mounted projection lens, based on the a judgment result of said judgment means.

Claim 19. (Currently Amended) The projection-type display device according to claim 12, wherein

said image signal correction means performs correction, referring to the correction data in individual correction data storage means included in said currently mounted projection lens ~~which~~ that stores correction data to perform individual correction corresponding to the projection lens.

Claim 20. (Currently Amended) The projection-type display device according to claim 13, wherein

said image signal correction means performs correction, referring to the correction data in individual correction data storage means included in ~~said~~ the currently mounted

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projection lens ~~which~~ that stores correction data to perform individual correction corresponding to the projection lens.

Claim 21. (Currently Amended) The projection-type display according to claim 12, further comprising:

standard correction data storage means ~~which~~ that stores standard correction data in accordance with the f number of a standard projection lens, wherein

said image signal correction means performs correction, referring to said standard correction data in said standard correction data storage means and referring to differential data in individual correction data storage means ~~which is~~ included in ~~said~~ the currently mounted projection lens and ~~which~~ that stores the differential data with respect to said standard correction data to perform individual correction corresponding to the projection lens.

Claim 22. (Currently Amended) The projection-type display device according to claim 13, further comprising:

standard correction data storage means ~~which~~ that stores standard correction data in accordance with the f number of a standard projection lens, wherein

said image signal correction means performs correction, referring to said standard correction data in said standard correction data storage means and referring to differential

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data in individual correction data storage means ~~which is~~
included in said currently mounted projection lens and which
that stores the differential data with respect to said
standard correction data to perform individual correction
corresponding to the projection lens.